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Nitecore NU25 MCT UL

Nitecore NU25 MCT UL 400 Lumen Ultralight USB-C Rechargeable Headlamp Instruction Manual

Model: NU25 MCT UL

Brand: Nitecore

1. INTRODUCTION

This manual provides detailed instructions for the Nitecore NU25 MCT UL 400 Lumen Ultralight USB-C Rechargeable Headlamp. Please read thoroughly before use to ensure proper operation and maintenance.

2. PACKAGE CONTENTS

The Nitecore NU25 MCT UL package includes:

- Nitecore NU25 MCT UL Headlamp
- USB-C to USB-C Charging Cable
- Elastic Cord Headband (Black)
- Diffusing Stuff Sack
- Nitecore Sticker



Figure 1: Nitecore NU25 MCT UL headlamp with included USB-C charging cable and Nitecore sticker.

3. SETUP AND FIRST USE

3.1. Charging the Headlamp

The NU25 MCT UL features a built-in rechargeable Lithium Ion battery.

1. Locate the USB-C charging port on the side of the headlamp.
2. Open the protective cover of the USB-C port.
3. Connect the included USB-C charging cable to the headlamp and a power source (e.g., USB adapter, computer USB port).
4. The power indicator lights will show charging status. A full charge typically takes approximately 1 hour.
5. Once fully charged, disconnect the cable and securely close the protective cover to maintain water resistance.

Dual Buttons Interface

Intuitive & Seamless Operation
Fits user habits

Lockout Mode 2s

Preventing accidental activation
during carrying or storing

Power Indication

Intuitive display

Power Button

On / Off / Brightness Levels Adjusting

MODE Button

Color Temperatures Switching



Figure 2: Close-up view of the Nitecore NU25 MCT UL headlamp's USB-C charging port.

3.2. Adjusting the Headband

The headlamp comes with an elastic cord headband for comfortable and secure fit.

1. Place the headlamp on your head.
2. Adjust the elastic cord using the cord lock mechanism at the back to achieve a snug fit without being too tight.
3. The headlamp unit can be tilted up or down to direct the beam as needed.



Figure 3: Nitecore NU25 MCT UL headlamp worn by a person, demonstrating its lightweight design.

Video 1: An overview of the Nitecore NU25 MCT and NU25 MCT UL headlamps, highlighting features and differences.

4. OPERATING INSTRUCTIONS

The NU25 MCT UL features a dual-button interface for intuitive control.



Figure 4: Close-up of the Nitecore NU25 MCT UL headlamp's dual button interface, showing Power and Mode buttons.

4.1. Power On/Off & Brightness Adjustment (White Light)

1. **To turn on:** Long press the Power button (larger button) for 2 seconds. The headlamp will turn on in the last used white light mode (or low neutral white by default).
2. **To adjust brightness:** While the white light is on, short press the Power button to cycle through Ultra Low, Low, Mid, and High brightness levels.
3. **To turn off:** Long press the Power button for 2 seconds.

4.2. Changing Color Temperature

The headlamp offers multiple color temperatures for the primary white light.

1. While the white light is on, short press the Mode button (smaller button) to cycle through Warm White (3000K), Neutral White (4500K), and Cool White (6500K).

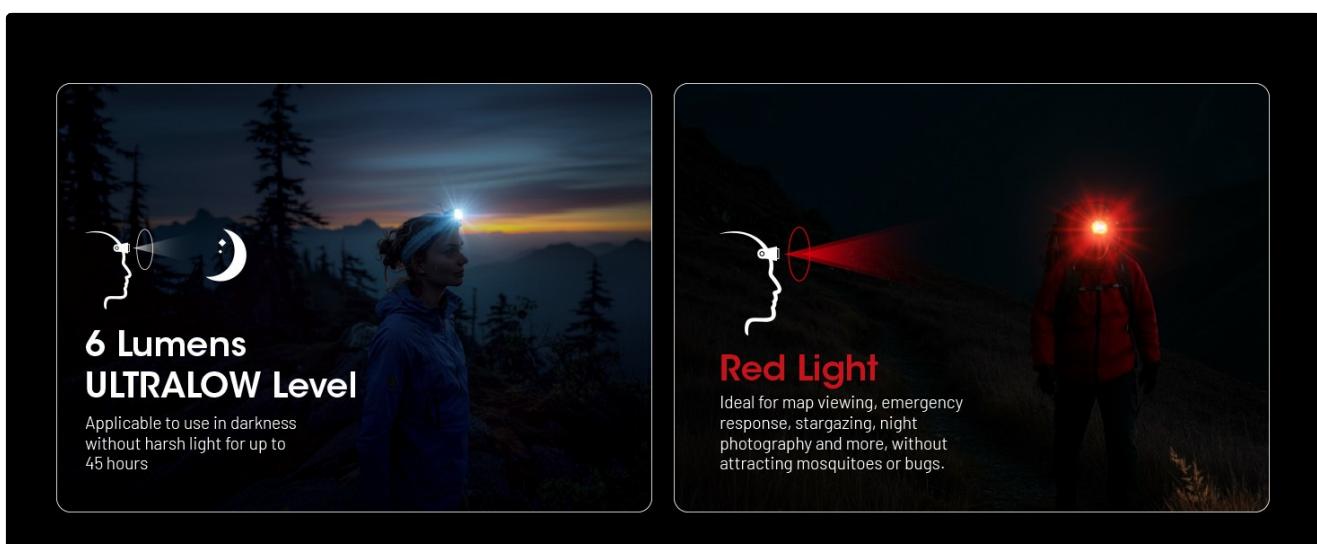


Figure 5: Illustration showing the three available color temperatures: 3000K Warm Light, 4500K Neutral White Light, and 6500K Cool

4.3. Red Light Mode

The auxiliary red light is useful for preserving night vision and signaling.

- To turn on red light:** When the headlamp is off, long press the Mode button for 2 seconds. It will turn on in Low Red.
- To adjust red light brightness/mode:** While the red light is on, short press the Power button to cycle through Low Red, High Red, and Red Flashing.
- To turn off red light:** Long press the Mode button for 2 seconds.

| Technical Data | | | | | | | | | |
|-----------------|--|---------------|--------------|-------------|---------------------|-------------|------------------|--|---------------|
| FL1 STANDARD | Primary Light (Neutral White Light / Warm Light / Cool White Light) | | | | Auxiliary Red Light | | | Primary Light (Neutral White Light) | |
| | HIGH | MID | LOW | ULTRALOW | HIGH | LOW | SLOW FLASHING | SOS | BEACON |
| 💡 | 400 Lumens | 200 Lumens | 60 Lumens | 6 Lumens | 15 Lumens | 5 Lumens | 15 Lumens | 400 Lumens | 400 Lumens |
| ⌚ | 2h 40min | 5h | 13h | 45h | 10h | 26h | — | — | — |
| ▶ | 132m | 94m | 51m | 13m | 7m | 4m | — | — | — |
| ☀️ | 4,351cd | 2,192cd | 662cd | 43cd | 13cd | 5cd | — | — | — |
| ✓ | 1m | | | | | | | | |
| ⚡ | IP66 | | | | | | | | |

Note: The stated data is measured by using the built-in 700mAh Li-Ion battery (3.85V) in accordance with the international flashlight testing standards ANSI/PLATO FL-1-2019 at an ambient temperature of 26°C (79°F) from the NITECORE Lab. The data may vary in real world use due to different environmental conditions.

*This product is equipped with a thermal protection function, which automatically regulates the output of the product according to the working condition to maintain the optimal performance.

Figure 6: Image demonstrating the red light mode, ideal for map viewing, stargazing, and not attracting insects.

4.4. Special Modes (SOS, Beacon)

- To access special modes:** While the headlamp is off, double press the Mode button. It will activate SOS mode.
- To cycle through special modes:** While in SOS mode, short press the Power button to switch to Beacon mode.
- To exit special modes:** Long press the Power button or Mode button for 2 seconds.

4.5. Lockout Function

To prevent accidental activation during transport or storage:

- To lock:** When the headlamp is off, simultaneously press and hold both the Power and Mode buttons for 2 seconds. The headlamp will flash once to indicate it is locked.
- To unlock:** Simultaneously press and hold both the Power and Mode buttons for 2 seconds. The headlamp will flash once and turn on in Ultra Low mode.

5. KEY FEATURES

- Ultralight Design:** Weighing only 1.65 oz (47g) with the elastic cord, designed for maximum comfort during extended use.

- **Multiple Color Temperatures (MCT):** Offers Warm (3000K), Neutral (4500K), and Cool (6500K) white light options to suit various environments and preferences.
- **High Brightness Output:** Up to 400 lumens with a maximum beam distance of 144 yards.
- **USB-C Rechargeable:** Integrated USB-C port for convenient and fast charging.
- **Durable Construction:** Crafted from robust PC material, rated IP66 for water and dust resistance, and impact-resistant up to 1 meter.
- **Auxiliary Red Light:** Preserves night vision and provides signaling capabilities.
- **Intuitive Dual-Button Interface:** Easy operation for power, brightness, and mode selection.
- **Power Indicator:** Built-in indicator displays battery status.



Figure 7: Image highlighting the ultralight design of the Nitecore NU25 MCT UL headlamp, weighing only 47 grams.

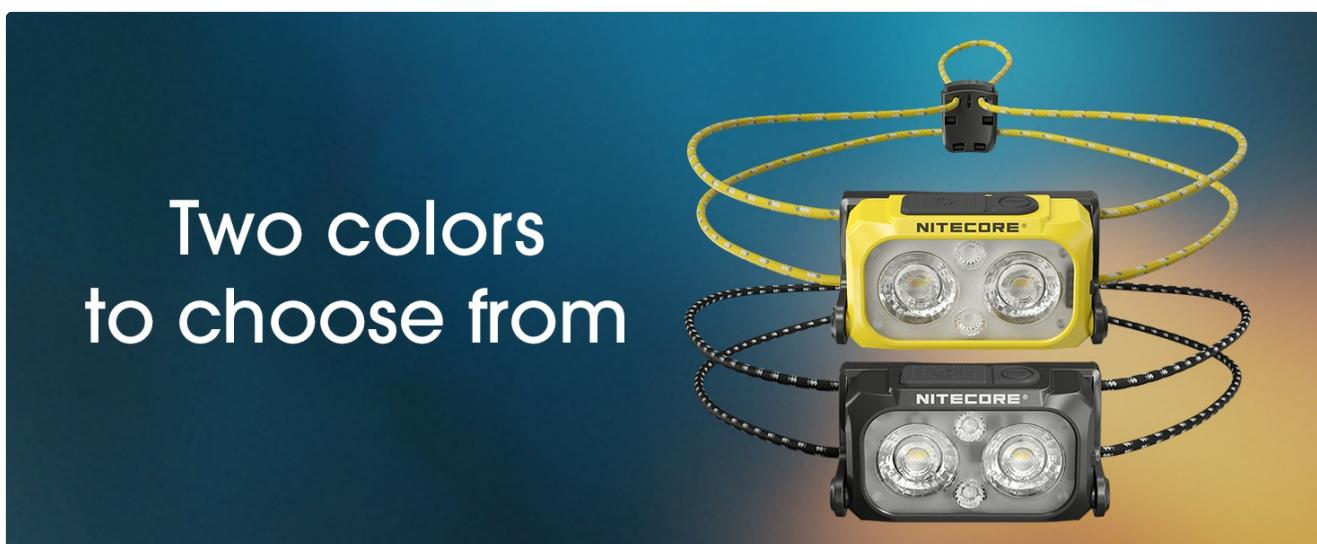


Figure 8: Image illustrating the Nitecore NU25 MCT UL's 400 lumens output and 144-yard beam distance.

6. TECHNICAL SPECIFICATIONS

| Mode | Output | Runtime | Beam Distance | Peak Beam Intensity |
|--|------------|----------|---------------|---------------------|
| Primary Light (Neutral White / Warm Light / Cool Light) | | | | |
| High | 400 Lumens | 2h 40min | 132m | 4381cd |
| Mid | 200 Lumens | 5h | 94m | 2192cd |

| Mode | Output | Runtime | Beam Distance | Peak Beam Intensity |
|----------------------------|------------|---------|---------------|---------------------|
| Low | 60 Lumens | 13h | 51m | 662cd |
| Ultra Low | 6 Lumens | 45h | 13m | 43cd |
| Auxiliary Red Light | | | | |
| High | 15 Lumens | 10h | -- | -- |
| Low | 7 Lumens | 26h | -- | -- |
| Slow Flashing | 15 Lumens | -- | -- | -- |
| Special Modes | | | | |
| SOS | 400 Lumens | -- | -- | -- |
| Beacon | 400 Lumens | -- | -- | -- |
| Impact Resistance | 1m | | | |
| Water Resistance | IP66 | | | |

Note: Stated data is measured using the built-in 700mAh Li-ion battery (3.85V) in accordance with international flashlight testing standards ANSI/PLATO FL 1-2019 at an ambient temperature of 22°C (72°F) from the NITECORE Lab. The data may vary in real-world use due to different environmental conditions.

This product is equipped with a thermal protection function, which automatically regulates the output of the product according to the working condition to maintain optimal performance.

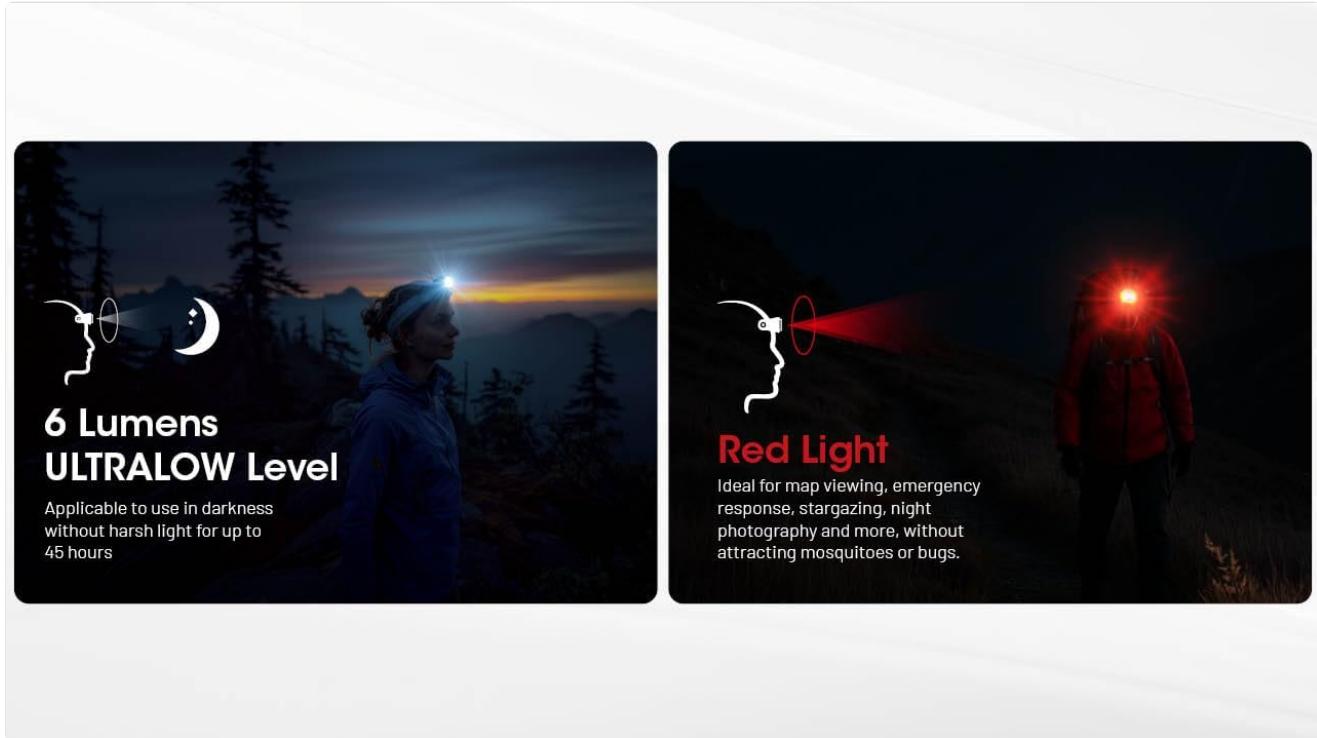


Figure 9: Technical specifications table for the Nitecore NU25 MCT UL headlamp.

7. CARE AND MAINTENANCE

- Clean the headlamp body with a soft, damp cloth. Avoid abrasive materials.
- Ensure the USB-C port cover is securely closed when not charging to maintain water resistance.

- Recharge the battery regularly, even if not in use, to prolong battery life. Avoid fully depleting the battery for extended periods.
- Store the headlamp in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

- **Headlamp not turning on:**
 - Check if the battery is charged. Connect to a USB-C power source.
 - Ensure the lockout function is not activated (simultaneously press both buttons for 2 seconds to unlock).
- **Light output is dim or inconsistent:**
 - The battery might be low; recharge the headlamp.
 - The headlamp may be in thermal regulation mode if it has been operating at high output for an extended period. Allow it to cool down.
- **Water ingress:**
 - Ensure the USB-C port cover is properly sealed. If water has entered, turn off the device immediately and allow it to dry completely before attempting to use it again. Contact customer support if issues persist.

9. WARRANTY AND CUSTOMER SUPPORT

The Nitecore NU25 MCT UL headlamp comes with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official Nitecore website.

For technical support, service, or inquiries, please contact Nitecore customer service or your local distributor.

Manufacturer: Sysmax Innovation Co.